

Applicant : Jason T. Bartell et al.
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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. ~~(Currently amended) A computer-implemented method of representing a stroke in an image, the stroke being defined by a path extending across one or more positions in the image and one or more stroke parameters, each stroke parameter representing an appearance attribute of the stroke, the method comprising:~~

~~associating values for the one or more stroke parameters with time values in a time dimension of the stroke, the parameter values being associated with the time values independent of position along the stroke path; and~~

~~representing the stroke according to the parameter values and their associated time values.~~

receiving input defining a paint stroke, the paint stroke being defined in two dimensions, a position dimension and a time dimension, where in the position dimension, the paint stroke is defined by one or more position values defining a stroke path, and in the time dimension, the paint stroke is defined by one or more time values associated with values for one or more stroke parameters, each parameter representing an appearance attribute of the stroke;

associating the position values with a first set of the time values; and

for each parameter, associating the values for the parameter with a second set of the time values different from the first set of time values.

2. (Cancelled)

3. (Original) The method of claim 1, wherein, the association of parameter values with time values is defined as a function.

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4. (Original) The method of claim 3, wherein:
the function is piecewise linear.
5. (Original) The method of claim 3, wherein:
a different function is used for each parameter.
6. (Original) The method of claim 3, wherein:
the function is implemented as a table.
7. (Currently amended) The method of claim 1, further comprising:
changing the time value associated with a parameter value; and
~~representing the stroke based in part on the parameter value and the associated~~
~~changed time value.~~
8. (Currently amended) The method of claim 1 7, wherein ~~representing the stroke~~
~~according to the parameter values and their associated time values includes representing a first~~
~~instance of the stroke and representing the stroke based in part on the parameter and the~~
~~associated changed time value includes presenting a second instance of the stroke, the method~~
further comprising:
generating a first instance of the stroke;
~~changing the stroke by changing the time value associated with a parameter value;~~
generating a second instance of the stroke that corresponds to the changed
stroke; and
interpolating between the first and second instances to generate one or more
additional instances of the stroke.
9. (Currently Amended) The method of claim 8, wherein:

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the first instance and the second instance each correspond to a keyframe of an animation, the animation having an animation time frame, each keyframe corresponding to a time point in animation time;

the time value ~~in the time dimension of the stroke~~ is changed as a function of animation time.

10. (Original) The method of claim 9, wherein, in the first instance or the second instance of the stroke, not every parameter has a defined value.

11. (Currently amended) A computer program product, tangibly stored on a computer-readable medium, ~~for representing a stroke in an image, the stroke being defined by a path extending across one or more positions in the image and one or more stroke parameters, each stroke parameter representing an appearance attribute of the stroke, the product comprising instructions operable to cause a programmable processor to perform operations comprising:~~

~~associating values for the one or more stroke parameters with time values in a time dimension of the stroke, the parameter values being associated with the time values independent of position along the stroke path; and~~

~~representing the stroke according to the parameter values and their associated time values.~~

receiving input defining a paint stroke, the paint stroke being defined in two dimensions, a position dimension and a time dimension, where in the position dimension, the paint stroke is defined by one or more position values defining a stroke path, and in the time dimension, the paint stroke is defined by one or more time values associated with values for one or more stroke parameters, each parameter representing an appearance attribute of the stroke;

associating the position values with a first set of the time values; and

for each parameter, associating the values for the parameter with a second set of the time values different from the first set of time values.

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12. (Cancelled)
13. (Original) The product of claim 11, wherein, the association of parameter values with time values is defined as a function.
14. (Original) The product of claim 13, wherein:
the function is piecewise linear.
15. (Original) The product of claim 13, wherein:
a different function is used for each parameter.
16. (Original) The product of claim 13, wherein:
the function is implemented as a table.
17. (Currently amended) The product of claim 11, wherein the operations further comprise:
changing the time value associated with a parameter value; and
~~representing the stroke based in part on the parameter value and the associated~~
~~changed time value.~~
18. (Currently amended) The product of claim 17, ~~wherein representing the stroke~~
~~according to the parameter values and their associated time values includes representing a first~~
~~instance of the stroke and representing the stroke based in part on the parameter and the~~
~~associated changed time value includes presenting a second instance of the stroke, the operations~~
further comprising:
generating a first instance of the stroke;
changing the stroke by changing the time value associated with a parameter value;
generating a second instance of the stroke that corresponds to the changed
stroke; and

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interpolating between the first and second instances to generate one or more additional instances of the stroke.

19. (Currently Amended) The product of claim 18, wherein:

the first instance and the second instance each correspond to a keyframe of an animation, the animation having an animation time frame, each keyframe corresponding to a time point in animation time;

the time value ~~in the time dimension of the stroke~~ is changed as a function of animation time.

20. (Original) The product of claim 19, wherein, in the first instance or the second instance of the stroke, not every parameter has a defined value.